

3745-1-33 Water quality criteria for the lake Erie drainage basin.

- (A) This rule applies in addition to the requirements contained in rule 3745-1-07 of the Administrative Code to water bodies within the lake Erie drainage basin. Except as provided in paragraphs (D) and (E) of this rule, the methodologies contained in rules 3745-1-36, 3745-1-37, 3745-1-38 and 3745-1-39 of the Administrative Code shall be used when adopting or revising numeric aquatic life, human health and wildlife water quality criteria and when implementing the narrative water quality criteria contained in rule 3745-1-04 of the Administrative Code for water bodies located in the lake Erie drainage basin.
- (B) The chemical-specific criteria listed in this rule apply as "Outside Mixing Zone Averages". For the purpose of setting water quality based effluent limits, these criteria shall be met after the effluent and the receiving water are reasonably well mixed as provided in rules 3745-2-05 and 3745-2-08 of the Administrative Code.
- (C) The water quality criteria and values adopted in, or developed pursuant to, this rule shall apply as follows:
 - (1) The water quality criteria and values for protection of human health, or site-specific modifications thereof, are "Outside Mixing Zone Average" water quality criteria and shall apply as follows:
 - (a) The "Drinking" water quality criteria and values for the protection of human health shall apply to all water bodies located in the lake Erie drainage basin within five hundred yards of drinking water intakes.
 - (b) The "Nondrinking" water quality criteria and values for the protection of human health shall apply to all water bodies located in the lake Erie drainage basin other than those specified in paragraph (C)(3)(i) of this rule.
 - (2) Criteria for protection of wildlife, or site-specific modifications thereof, are "Outside Mixing Zone Average" water quality criteria and shall apply to all water bodies located in the lake Erie drainage basin.
- (D) For pollutants listed in table 33-1 of this rule, any methodologies and procedures acceptable under 40 C.F.R. 131 may be used when developing water quality criteria or implementing narrative criteria.
- (E) For any pollutant other than those in table 33-1 of this rule for which it is demonstrated that a methodology or procedure cited in this rule is not scientifically defensible, the director may apply an alternative methodology or procedure acceptable under 40 C.F.R. 131 when developing water quality criteria.

Table 33-1. Pollutants subject to any methodologies and procedures acceptable under 40 C.F.R. 131.

Alkalinity
Ammonia
Bacteria
Biochemical oxygen demand (BOD)
Chlorine
Color
Dissolved oxygen
Dissolved solids
pH
Phosphorus
Salinity
Temperature
Total and suspended solids
Turbidity

Table 33-2. Lake Erie drainage basin water quality criteria for the protection of human health and wildlife.

Chemical	Form ¹	Units ²	Human Health OMZA ³		Wildlife OMZA ³
			Drinking	Nondrinking	
Arsenic	TR	µg/l	10	--	--
Benzene ⁴	T	µg/l	12	310	--
Chlordane ⁴	T	ng/l	0.25	0.25	--
Chlorides	T	mg/l	250	--	--
Chlorobenzene	T	µg/l	470	3200	--
Cyanides	T	mg/l	0.60	48	--
DDT ⁴	T	ng/l	0.15	0.15	0.011 ^a
Dieldrin ⁴	T	ng/l	0.0065	0.0065	--
2,4-Dimethylphenol	T	µg/l	450	8700	--
2,4-Dinitrophenol	T	µg/l	55	2800	--
Dissolved solids	T	mg/l	750/500 ^b	--	--
Hexachlorobenzene ⁴	T	ng/l	0.45	0.45	--
Hexachloroethane ⁴	T	µg/l	5.3	6.7	--
Iron	S	µg/l	300	--	--
Lindane	T	µg/l	0.47	0.50	--
Mercury	TR	µg/l	0.0031	0.0031	0.0013
Methylene chloride ⁴	T	µg/l	47	2600	--
Nitrate-N + Nitrite-N	T	mg/l	10	--	--
PCB ⁴	T	ng/l	0.026	0.026	0.12
Sulfates	T	mg/l	250	--	--
2,3,7,8-TCDD ⁴	T	pg/l	0.0086	0.0086	0.0031
Toluene	T	µg/l	5600	51000	--
Toxaphene ⁴	T	ng/l	0.068	0.068	--
Trichloroethylene ⁴	T	µg/l	29	370	--

¹ S = soluble; T = total; TR = total recoverable.

² mg/l = milligrams per liter (parts per million); µg/l = micrograms per liter (parts per billion); ng/l = nanograms per liter (parts per trillion); pg/l = picograms per liter (parts per quadrillion).

³ OMZA = outside mixing zone average.

⁴ Human health criteria for this chemical are based on a carcinogenic endpoint.

^a This criterion applies to the sum of DDT and metabolites.

^b Equivalent 25°C specific conductance values are 1200 micromhos/cm as a maximum and 800 micromhos/cm as a thirty-day average.

Effective: 12/30/2002

R.C. Section 119.032 review dates: 3/25/2002 and 12/30/2007

Promulgated under: R.C. Section 119.03

Rule authorized by: R.C. Section 6111.041

Rule amplifies: R.C. Section 6111.041

Prior effective dates: 2/14/1978, 4/4/1985, 8/19/1985, 4/30/1987, 5/1/1990, 4/26/1997, 10/31/1997, 2/22/2002